



## The claims are:

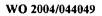
1.	1.	A plastic resin blend comprising an intumescent flame retardant and at least
2	one plastic res	an.
. 1	2.	The plastic resin blend of claim 1, wherein the at least one plastic resin is a
2	polyolefin.	
1.	3.	The plastic resin blend of claim 2, wherein the polyolefin is selected from the
2	group consisti	ng of:
3	(a) pol	ypropylene homopolymer;
4	(b) pol	ypropylene copolymer;
5	(c) eth	ylene propylene diene monomer (EPDM);
6	(d) ma	leated propylene diene monomer (m-EPDM);
7	(e) eth	ylene-polypropylene copolymer;
8	(f) mal	leated ethylene-polypropylene copolymer (m-EP copolymers);
9	(g) a th	nermoplastic elastomer;
10.	(h) a th	nermoplastic rubber;
11	(i) ethy	vlene/vinyl acetate copolymer (EVA)
12	(j) a po	oly(4-methyl-1-pentene) homopolymer;
13	(k) pol	y(4-methyl-1-pentene/1-decene) copolymer;
14	(l) very	y low density polyethylene (VLDPE);
15	(m) lov	w density polyethylene (LDPE);
16	(n) me	dium density polyethylene (MDPE);
17	(o) hig	h density polyethylene (HDPE);
18	(p) line	ear low density polyethylene (LLDPE);
19	(q) cro	sslinked polyethylene (XLPE);

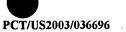


20	(r) crosslinked polypropylene (XLPP); and	
21	(s) blends of any of the components (a) through (r).	
1	4. The plastic resin blend of claim 3, wherein the polyolefin comprises	
2	approximately 10 to 85 percent by weight of the plastic resin blend.	
1	5. The plastic resin blend of claim 4, wherein the polyolefin comprises	
2	approximately 50 to 75 percent by weight of the plastic resin blend.	
1	6. The plastic resin blend of claim 3, wherein the polyolefin is polypropylene,	
2	polyethylene, or a blend thereof, and the polyolefin comprises approximately 51 percent by	
3	weight of the plastic resin when used in combination with another polyolefin.	
1	7. The plastic resin blend of claim 3, wherein the thermoplastic elastomer is	
2 ·	polyurethane or polyurea.	
1	8. The plastic resin blend of claim 1, wherein the intumescent flame retardant is	
2	selected from the group consisting of:	
3	(a) activated melamine pyrophosphate;	
4	(b) activated melamine polyphosphate;	
5	(c) activated ethylene diamine phosphate;	
6	(d) activated ammonium polyphosphate;	
7	(e) melamine;	
8	(f) melamine phosphate;	
9	(g) unactivated melamine pyrophosphate;	
10	(h) unactivated melamine polyphosphate;	
11	(i) melamine cyanurate; and	
12	(j) blends of any of the components (a) to (i).	



1	9.	The plastic resin blend of claim 8, wherein the intumescent flame retardant is
2	blend of activ	rated ethylene diamine phosphate and melamine phosphate.
1	10.	The plastic resin blend of claim 1, wherein the intumescent flame retardant
2	comprises app	proximately 10 to 50 percent by weight of the plastic resin blend.
1	11.	The plastic resin blend of claim 10, wherein the intumescent flame retardant
2	comprises ap	proximately 25 to 35 percent by weight of the plastic resin blend.
1	12.	The plastic resin blend of claim 11, wherein the intumescent flame retardant
2	comprises ap	proximately 33 percent by weight of the plastic resin blend for cable
3	applications.	
1	13.	The plastic resin blend of claim 10, wherein the intumescent flame retardant
2	comprises app	proximately 10 to 25 percent by weight of the plastic resin blend for injection
3	molding appl	ications.
1	14.	The plastic resin blend of claim 1, wherein the plastic resin blend is a
2	concentrate.	
1 .	15.	The plastic resin blend of claim 14, wherein the intumescent flame retardant
2	comprises ap	proximately 30 to 95 percent by weight of the plastic resin blend.
1	16.	The plastic resin blend of claim 1, further comprising at least one engineering
2	resin.	
1.	17.	The plastic resin blend of claim 16, wherein the at least one engineering resin
2	is selected fro	om the group consisting of:
3	(a) ny	lon;
4	(b) po	ly(butylene terephthalate);





5 .	(c) poly(ethylene terephthalate);	
6	(d) acrylonitrile butadiene styrene (ABS);	
7	(e) nylon 6;	
8	(f) nylon 6/6;	
9	(g) nylon 11;	
10 -	(h) nylon 12;	
11	(i) polycarbonate;	
12	(j) aromatic polyamide; and	
13	(k) blends of any of the components (a) through (j).	
1.	18. The plastic resin blend of claim 17, wherein the at least one engineering resin	
2	is a blend of ABS/polycarbonate.	
1	19. The plastic resin blend of claim 1, further comprising at least one additive.	
1	20. The plastic resin blend of claim 19, wherein the additive is selected from the	
2 ·	group consisting of:	
3	(a) hindered phenolic stabilizer;	
4	(b) acid scavenger;	
5	(c) acid hydrotalcite;	
6	(d) endothermic agent;	
7	(e) UV absorber;	
8	(f) nanoclay;	
9	(g) nanomaterial;	
10	(h) filler;	
11.	(i) fiberglass;	
12	(i) metallic filler:	



13	(k) colorant; and	
14 .	(1) blends of any of the components (a) through (k).	
1	21.	The plastic resin blend of claim 19, wherein the additive comprises up to
2	approximately	y 75 percent of the plastic resin blend based on polymer components plus the
3	additive.	
1	22.	The plastic resin blend of claim 21, wherein the additive comprises
2	approximatel	y 0 to 60 weight percent of the engineering resin blend based on polymer
3	components plus the additive.	
1	23.	The plastic resin blend of claim 22, wherein the additive comprises
2	approximatel	y 0 to 40 weight percent of the engineering resin blend based on polymer
3	components p	plus the additive.
1	24.	The plastic resin blend of claim 1, further comprising a thermoset resin.
1	25.	The plastic resin blend of claim 24, wherein the thermoset resin is selected
2.	from the gro	up consisting of:
3	(a) po	plyester;
4	(b) po	olyolefin;
5	(c) e <sub>l</sub>	ooxy;
6	(d) v	inyl ester;
7	(e) al	lkyl polyester;
8	(f) m	elamine isocyanurate;
9	(g) p	olyurethane;
10	(h) p	olyurea;
11	(i) pl	henolic resin;
12	(j) p	henylene-based resin;



13	(k) isophthalic unsaturated polyester;	
14	(l) orthophthalic unsaturated polyester; and	
15	(m) blends of any of the components (a) through (l).	
1	26. The plastic resin blend of claim 25, wherein the polyurethane is a	
2	polyurethane foam.	
1	27. An engineering resin blend comprising an intumescent flame retardant and at	
2	least one engineering resin.	
1	28. The engineering resin blend of claim 27, wherein the at least one engineering	
2	resin is selected from the group consisting of:	
3	(a) nylon;	
4	(b) poly(butylene terephthalate);	
5	(c) poly(ethylene terephthalate);	
6	(d) acrylonitrile butadiene styrene (ABS);	
7	(e) nylon 6;	
8	(f) nylon 6/6;	
9	(g) nylon 11;	
10	(h) nylon 12;	
11	(i) polycarbonate;	
12	(j) aromatic polyamide; and	
13	(k) blends of any of the components (a) through (j).	
1	29. The engineering resin blend of claim 27, wherein the intumescent flame	
2	retardant is selected from the group consisting of:	
3	(a) activated melamine pyrophosphate;	
4	(b) activated melamine polyphosphate;	



5	(c) activated ethylene diamine phosphate;	
6	(d) activated ammonium polyphosphate;	
7	(e) melamine;	
8	(f) melamine phosphate;	
9	(g) unactivated melamine pyrophosphate;	
10	(h) unactivated melamine polyphosphate;	
11	(i) melamine cyanurate; and	
12.	(j) blends of any of the components (a) through (i).	
1 2	30. The engineering resin blend of claim 27, further comprising at least one plastic resin.	
1 2	31. The engineering resin blend of claim 30, wherein the at least one plastic resin is a polyolefin.	
1	32. The engineering resin blend of claim 31, wherein the polyolefin is selected	
2	from the group consisting of:	
3	(a) polypropylene homopolymer;	
4 .	(b) polypropylene copolymer;	
5	(c) ethylene propylene diene monomer (EPDM);	
6	(d) maleated propylene diene monomer (m-EPDM);	
7	(e) ethylene-polypropylene copolymer;	
8	(f) maleated ethylene-polypropylene copolymer (m-EP copolymers);	
9	(g) a thermoplastic elastomer;	
10	(h) a thermoplastic rubber;	
11	(i) ethylene/vinyl acetate copolymer (EVA)	
12	(j) a poly(4-methyl-1-pentene) homopolymer;	

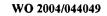


13	(k) poly(4-memyi-1-pentene/1-decene) coporymer,
14	(l) very low density polyethylene (VLDPE);
15	(m) low density polyethylene (LDPE);
16	(n) medium density polyethylene (MDPE);
17 .	(o) high density polyethylene (HDPE);
18	(p) linear low density polyethylene (LLDPE);
19	(q) crosslinked polyethylene (XLPE);
20	(r) crosslinked polypropylene (XLPP); and
21	(s) blends of any of the components (a) through (r).
1	33. The engineering resin blend of claim 31, wherein the polyolefin comprises
2	approximately 10 to 85 percent by weight of the engineering resin blend.
1	34. The engineering resin blend of claim 33, wherein the polyolefin comprises
2	approximately 50 to 75 percent by weight of the engineering resin blend.
1	35. The engineering resin blend of claim 29, wherein the intumescent flame
2	retardant is a blend of activated ethylene diamine phosphate and melamine phosphate.
1	36. The engineering resin blend of claim 27, wherein the intumescent flame
2	retardant comprises approximately 10 to 50 percent by weight of the engineering resin blend.
1	37. The engineering resin blend of claim 36, wherein the intumescent flame
2	retardant comprises approximately 25 to 35 percent by weight of the engineering resin blend.
1	38. The engineering resin blend of claim 37, wherein the intumescent flame
2	retardant comprises approximately 33 percent by weight of the engineering resin blend for
3	cable applications.



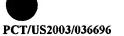
1	39. The engineering resin blend of claim 36, wherein the intumescent flame	
2	retardant comprises approximately 10 to 25 percent by weight of the engineering resin blend	
3	for injection molding applications.	
1	40. The engineering resin blend of claim 27, wherein the engineering resin blend	
2	is a concentrate.	
1	41. The engineering resin blend of claim 40, wherein the intumescent flame	
2	retardant comprises approximately 30 to 95 percent by weight of the engineering resin blend	
1	42. The engineering resin blend of claim 27, wherein the at least one engineering	
2	resin is a blend of ABS/polycarbonate.	
1	43. The engineering resin blend of claim 27, further comprising at least one	
2	additive.	
1	44. The engineering resin blend of claim 43, wherein the additive is selected from	
2	the group consisting of:	
3	(a) hindered phenolic stabilizer;	
4	(b) acid scavenger;	
5	(c) acid hydrotalcite;	
6	(d) endothermic agent;	
7	(e) UV absorber;	
8	(f) nanoclay;	
9	(g) nanomaterial;	
10	(h) filler;	
11	(i) fiberglass;	
12	(j) metallic filler;	

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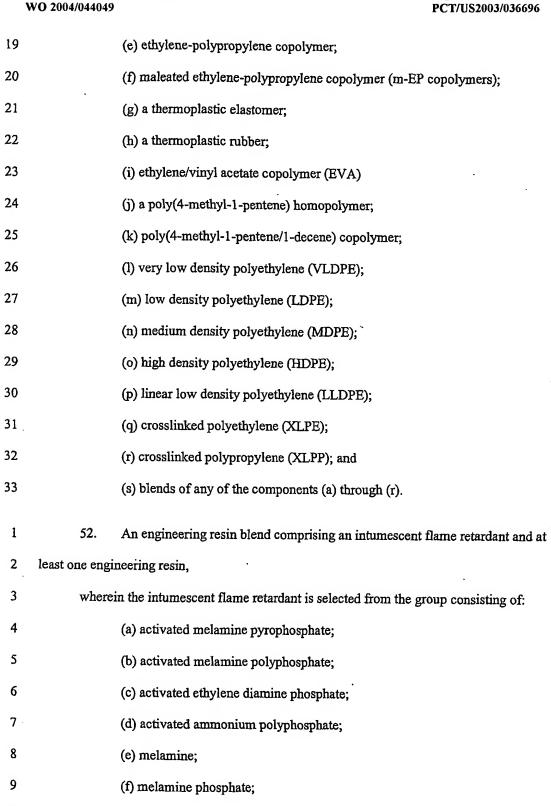
13	(k) colorant; and	
14	(l) blends of any of the components (a) through (k).	
1	45. The engineering resin blend of claim 44, wherein the additive comprises up to	
2	approximately 75 percent of the engineering resin blend based on polymer components plus	
3	the additive.	
1	46. The engineering resin blend of claim 45, wherein the additive comprises	
2	approximately 0 to 60 weight percent of the engineering resin blend based on polymer	
3	components plus the additive.	
1	47. The engineering resin blend of claim 46, wherein the additive comprises	
2	approximately 0 to 40 weight percent of the engineering resin blend based on polymer	
3	components plus the additive.	
1	48. The engineering resin blend of claim 27, further comprising a thermoset resin.	
1	49. The engineering resin blend of claim 48, wherein the thermoset resin is	
2	selected from the group consisting of:	
3	(a) polyester;	
4	(b) polyolefin;	
5	(c) epoxy;	
6.	(d) vinyl ester;	
7	(e) alkyl polyester;	
8	(f) melamine isocyanurate;	
9	(g) polyurethane;	
10	(h) polyurea;	
11	(i) phenolic resin;	



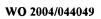
12	(j) phenylene-based resin;	
13	(k) isophthalic unsaturated polyester;	
14	(l) orthophthalic unsaturated polyester, and	
15	(m) blends of any of the components (a) through (l).	
1	50. The engineering resin blend of claim 49, wherein the polyurethane is a	
2	polyurethane foam.	
1.	51. A plastic resin blend comprising an intumescent flame retardant and at least	
2	one polyolefin,	
3	wherein the intumescent flame retardant is selected from the group consisting of:	
4	(a) activated melamine pyrophosphate;	
5	(b) activated melamine polyphosphate;	
6	(c) activated ethylene diamine phosphate;	
7	(d) activated ammonium polyphosphate;	
8	(e) melamine;	
9	(f) melamine phosphate;	
10	(g) unactivated melamine pyrophosphate;	
11	(h) unactivated melamine polyphosphate;	
12	(i) melamine cyanurate; and	
13	(j) blends of any of the components of (a) through (i),	
14	wherein the polyolefin is selected from the group consisting of:	
15	(a) polypropylene homopolymer;	
16	(b) polypropylene copolymer;	
17	(c) ethylene propylene diene monomer (EPDM);	
18	(d) maleated propylene diene monomer (m-EPDM);	



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(g) unactivated melamine pyrophosphate;

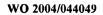




l 1	(h) unactivated melamine polyphosphate;	
12	(i) melamine cyanurate; and	
13	(j) blends of any of the components (a) through (i),	
14	wherein the at least one engineering resin is selected from the group consisting of:	
15	(a) nylon;	
16	(b) poly(butylene terephthalate);	
17	(c) poly(ethylene terephthalate);	
18	(d) acrylonitrile butadiene styrene (ABS);	
19	(e) nylon 6;	
20 .	(f) nylon 6/6;	
21	(g) nylon 11;	
22	(h) nylon 12;	
23	(i) polycarbonate;	
24	(j) aromatic polyamide; and	
25	(k) blends of any of the components (a) through (j).	
1	53. A thermoset resin blend comprising an intumescent flame retardant and at least	
2	one thermoset.	
1	54. The thermoset resin blend of claim 53, wherein the thermoset resin is selected	
2	from the group consisting of:	
3	(a) polyester;	
4	(b) polyolefin;	
5	(c) epoxy;	
<b>6</b> .	(d) vinyl ester;	
7	(e) alkyl polyester;	

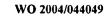


ð	(1) meiamine isocyanurate;		
9.	(g) polyurethane;		
0	(h) polyurea;		
1	(i) phenolic resin;		
12	(j) phenylene-based resin;		
13	(k) isophthalic unsaturated polyester;		
14	(l) orthophthalic unsaturated polyester; and		
15	(m) blends of any of the components (a) through (l).		
1 2	55. The thermoset resin blend of claim 54, wherein the polyurethane is a polyurethane foam.		
1	56. The thermoset resin blend of claim 53, wherein the intumescent flame		
2	retardant is selected from the group consisting of:		
3	(a) activated melamine pyrophosphate;		
4	(b) activated melamine polyphosphate;		
5.	(c) activated ethylene diamine phosphate;		
6	(d) activated ammonium polyphosphate;		
7	(e) melamine;		
8	(f) melamine phosphate;		
9	(g) unactivated melamine pyrophosphate;		
10	(h) unactivated melamine polyphosphate;		
11	(i) melamine cyanurate; and		
12	(j) blends of any of the components (a) to (i).		
1	57. The thermoset resin blend of claim 56, wherein the intumescent flame		
2	retardant is a blend of activated ethylene diamine phosphate and melamine phosphate.		



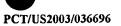


1 -	58. The thermoset resin blend of claim 53, wherein the intumescent flame	
2	retardant comprises approximately 0 to 50 percent by weight of the thermoset resin blend.	
1	59. The thermoset resin blend of claim 58, wherein the intumescent flame	
2	retardant comprises approximately 5 to 25 percent by weight of the thermoset resin blend.	
1	60. The thermoset resin blend of claim 59, wherein the intumescent flame	
2	retardant comprises approximately 15 to 20 percent by weight of the thermoset resin blend	l.
1	61. The thermoset resin blend of claim 53, wherein the thermoset resin blend is	a
2	concentrate.	
1	62. The thermoset resin blend of claim 61, wherein the intumescent flame	
2	retardant comprises approximately 30 to 95 percent by weight of the thermoset resin blend	l.
1	63. The thermoset resin blend of claim 53, further comprising at least one	
2	engineering resin.	
1	64. The thermoset resin blend of claim 63, wherein the at least one engineering	5
2	resin is selected from the group consisting of:	
3	(a) nylon;	
4	(b) poly(butylene terephthalate);	
5 <sup>.</sup>	(c) poly(ethylene terephthalate);	
6	(d) acrylonitrile butadiene styrene (ABS);	
7	(e) nylon 6;	
8	(f) nylon 6/6;	
9	(g) nylon 11;	
0	(h) nylon 12;	
1	(i) polycarbonate;	



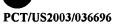


12	()) aromatic polyamide; and	
13 <sup>-</sup>	(k) blends of any of the components (a) through (j).	
1	65. The thermoset resin blend of claim 64, wherein the at least one engineering	
2	resin is a blend of ABS/polycarbonate.	
1	66. The thermoset resin blend of claim 53, further comprising at least one	
2	additive.	
1	67. The thermoset resin blend of claim 66, wherein the additive is selected from	
2	the group consisting of:	
3	(a) hindered phenolic stabilizer;	
4	(b) acid scavenger;	
5	(c) acid hydrotalcite;	
6	(d) endothermic agent;	
7	(e) UV absorber;	
8	(f) nanoclay;	
9	(g) nanomaterial;	
10	(h) filler;	
11	(i) fiberglass;	
12	(j) metallic filler;	
· 13.	(k) curing agent;	
14	(l) blowing agent;	
15	(m) heat stabilizer;	
16	(n) light stabilizer;	
17	(o) plasticizer;	
18	(p) accelerator;	

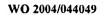


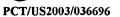
19	(q) pigment;		
20	(r) preservative;		
21	(s) ultraviolet light stabilizer;		
22	(t) colorant;		
23	(u) antioxidant;		
24	(v) antistatic agent;		
25	(w) viscosity modifier,		
26	(x) glass fiber; and		
27	(y) blends of any of the components (a) through (x).		
1	68. The thermoset resin blend of claim 67, wherein the additive comprises up to		
2	approximately 75 weight percent of the thermoset resin blend based on polymer components		
3	plus the additive.		
1	69. The thermoset resin blend of claim 67, wherein the additive is glass fiber and		
2	comprises up to approximately 60 weight percent of the thermoset resin blend based on		
3	polymer components plus the additive.		
1	70. The thermoset resin blend of claim 53, further comprising at least one plastic		
2	resin.		
1	71. The thermoset resin blend of claim 70, wherein the at least one plastic resin is		
2	a polyolefin.		
1	72. The thermoset resin blend of claim 71, wherein the polyolefin is selected from		
2	the group consisting of:		
3	(a) polypropylene homopolymer;		
4	(b) polypropylene copolymer;		



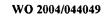


5	(c) ethylene propylene diene monomer (EPDM);
6	(d) maleated propylene diene monomer (m-EPDM);
7	(e) ethylene-polypropylene copolymer;
8	(f) maleated ethylene-polypropylene copolymer (m-EP copolymers);
9	(g) a thermoplastic elastomer;
10	(h) a thermoplastic rubber;
11	(i) ethylene/vinyl acetate copolymer (EVA)
12	(j) a poly(4-methyl-1-pentene) homopolymer;
13	(k) poly(4-methyl-1-pentene/1-decene) copolymer;
14	(l) very low density polyethylene (VLDPE);
15	(m) low density polyethylene (LDPE);
16	(n) medium density polyethylene (MDPE);
17	(o) high density polyethylene (HDPE);
18	(p) linear low density polyethylene (LLDPE);
19	(q) crosslinked polyethylene (XLPE);
20	(r) crosslinked polypropylene (XLPP); and
21	(s) blends of any of the components (a) through (r).
1 Î	73. A thermoset resin blend comprising an intumescent flame retardant and at
2	least one thermoset resin,
3	wherein the intumescent flame retardant is selected from the group consisting of:
4	
	(a) activated melamine pyrophosphate;
5	(b) activated melamine polyphosphate;
6	(c) activated ethylene diamine phosphate;
7	(d) activated ammonium polyphosphate;
8	(e) melamine;



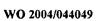


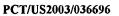
9		(f) melamine phosphate;
10		(g) unactivated melamine pyrophosphate;
11		(h) unactivated melamine polyphosphate;
12		(i) melamine cyanurate; and
13 ·		(j) blends of any of the components (a) through (i),
14	where	in the at least one thermoset resin is selected from the group consisting of:
15		(a) polyester;
16		(b) polyolefin;
17		(c) epoxy;
18	•	(d) vinyl ester;
19		(e) alkyl polyester;
20		(f) melamine isocyanurate;
21		(g) polyurethane;
22.		(h) polyurea;
23		(i) phenolic resin;
24		(j) phenylene-based resin;
25		(k) isophthalic unsaturated polyester;
26		(1) orthophthalic unsaturated polyester; and
27		(m) blends of any of the components (a) through (l).
1	74.	A chemical resin blend comprising an intumescent flame retardant and at least
2	one resin sele	ected from the group consisting of a plastic resin, an engineering resin and a
3	thermoset res	sin.
	25	The should be a bland of claim 74 miles and the coair is a migration of the second of
1	75.	The chemical resin blend of claim 74, wherein the resin is a plastic resin.





1	76.	The chemical resin blend of claim 74, wherein the resin is an engineering
2	resin.	
1	77.	The chemical resin blend of claim 74, wherein the resin is a thermoset rein.
1	78.	The chemical resin blend of claim 74, wherein the intumescent flame retardant
2	is selected fro	om the group consisting of:
3	•	(a) activated melamine pyrophosphate;
4		(b) activated melamine polyphosphate;
5		(c) activated ethylene diamine phosphate;
6		(d) activated ammonium polyphosphate;
7		(e) melamine;
. 8		(f) melamine phosphate;
9.		(g) unactivated melamine pyrophosphate;
10		(h) unactivated melamine polyphosphate;
11		(i) melamine cyanurate; and
12		(j) blends of any of the components (a) through (i).
1.	79.	A cable comprising an intumescent flame retardant and at least one resin
2	selected from	the group consisting of a plastic resin, an engineering resin and a thermostat
3	resin.	
1	80.	The cable of claim 79, wherein the cable is selected from the group consisting
2	of plenum ca	ble, fiber optic cable, copper cable, telecommunications cable, and video cable.
1	81.	The cable of claim 80, wherein the resin is a plastic resin.
1	82.	The cable of claim 80, wherein the resin is an engineering resin.





1	83.	The cable of claim 80, wherein the resin is a thermoset rein.
1	84.	The cable of claim 80, wherein the intumescent flame retardant is selected
2	from the grou	p consisting of:
3		(a) activated melamine pyrophosphate;
4		(b) activated melamine polyphosphate;
<b>5</b> <sub>.</sub>		(c) activated ethylene diamine phosphate;
6		(d) activated ammonium polyphosphate;
7		(e) melamine;
8		(f) melamine phosphate;
9		(g) unactivated melamine pyrophosphate;
10		(h) unactivated melamine polyphosphate;
11		(i) melamine cyanurate; and
12		(j) blends of any of the components (a) through (i).
1	85.	A pellet comprising an intumescent flame retardant and at least one resin
2	selected from	the group consisting of a plastic resin, an engineering resin and a thermostat
3	resin.	
1	86.	The pellet of claim 85, wherein the resin is a plastic resin.
1	87.	The pellet of claim 85, wherein the resin is an engineering resin.
1	88.	The pellet of claim 85, wherein the resin is a thermoset rein.
1	89.	The pellet of claim 85, wherein the intumescent flame retardant is selected
2	from the grou	up consisting of:
3		(a) activated melamine pyrophosphate;
4		(b) activated melamine polyphosphate;



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5	(c) activated ethylene diamine phosphate;
6	(d) activated ammonium polyphosphate;
7.	(e) melamine;
8	(f) melamine phosphate;
9	(g) unactivated melamine pyrophosphate;
10	(h) unactivated melamine polyphosphate;
11	(i) melamine cyanurate; and
12 ·	(j) blends of any of the components (a) through (i).